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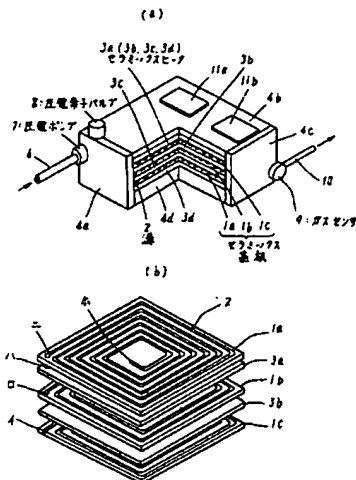
chromatography is thus realized.

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(57) Abstract:

PURPOSE: To reduce the size of a device and to make the handling thereof easier by laminating ceramic heaters and ceramic substrates having grooves and providing holes communicating the grooves of the ceramic substrates.

CONSTITUTION: The plate-shaped ceramic heaters 3aW3d and the ceramic substrates 1aW1c provided with, for example, spiral grooves 2 on one or both surfaces are laminated to a sandwich shape. The grooves 2 of the substrates 1aW1c are communicated by the through-holes of the ceramic heaters 3aW3d provided to correspond to the terminals thereof. The grooves are thereby formed as one column in the state in which the ceramic heaters and ceramic substrates are laminated. A small-sized, lightweight and solid state gas



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